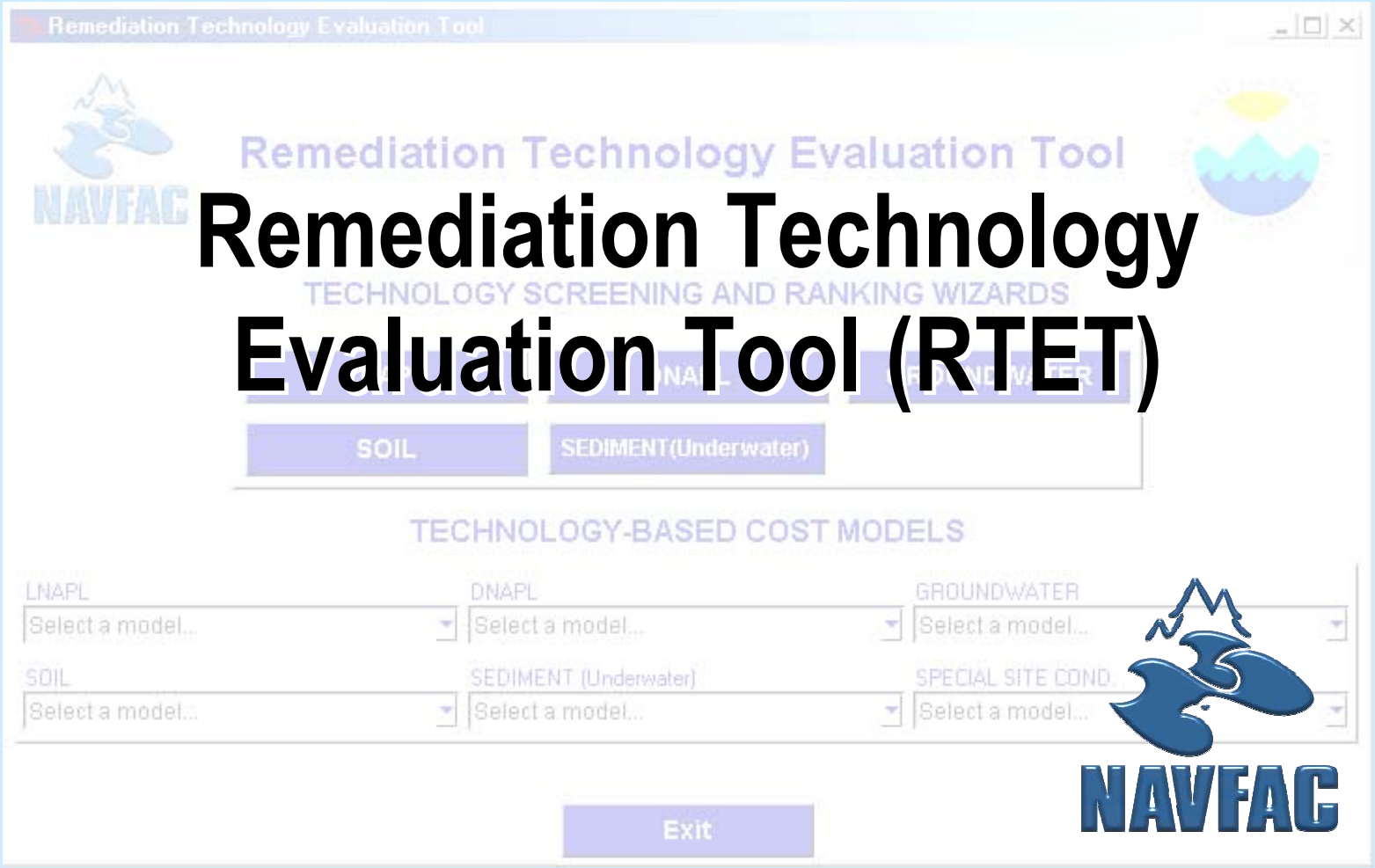
# RITS Special Edition

## Computer and Web-Based T2 Tools




# Remediation Technology Evaluation Tool (RTET)

NAVFAC

# Introduction

- What's the Purpose?
  - Technology cost comparison
  - Technology screening and ranking
- Who Developed It?
  - Cost models developed for NORM/CTC
  - Navy CTC Workgroup and Navy contractors
- What's Included?
  - Life-cycle cost estimates for 36 technologies
  - Technology Screening and Ranking Wizards for LNAPL, DNAPL, soil, sediment, and groundwater
  - Detailed technology and cost Help information

# Structure

- Main
  - Technology screening and ranking wizards
  - Technology-based cost models
    - LNAPL (4 technologies)
    - DNAPL (4 technologies)
    - Groundwater (11 technologies)
    - Soil (23 technologies)
    - Sediment (16 technologies)
    - Special site conditions (8 cost models)
- Help

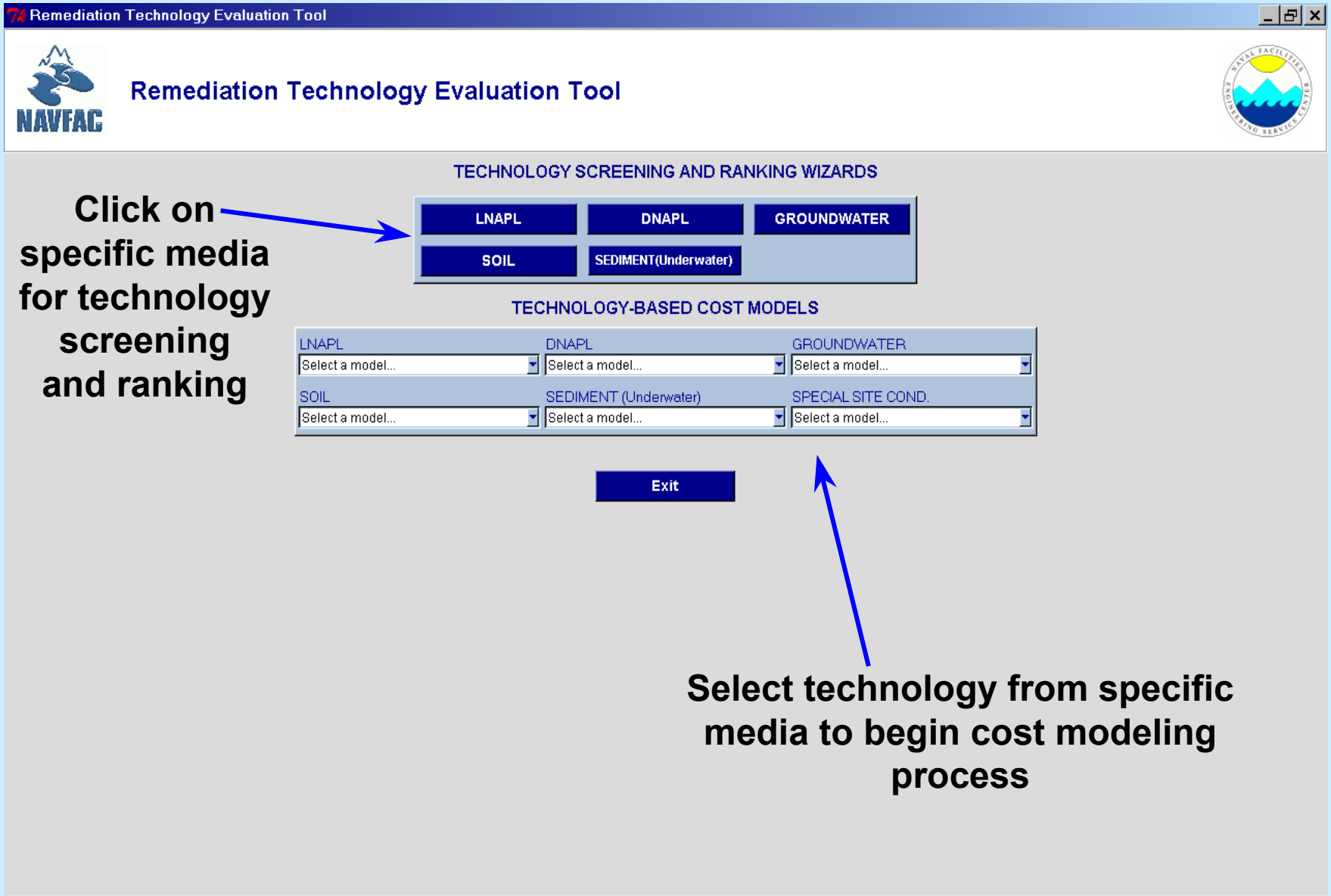
# Web Address and POCs

- What is the Web Address (to Download)?

  **http://enviro.nfesc.navy.mil/erb/restoration/technologies/sel_tools/main.htm**

- Who Can I Contact For Additional Information?
  - Navy POC: (805) 982-5070
  - Battelle POC: (614) 424-7723

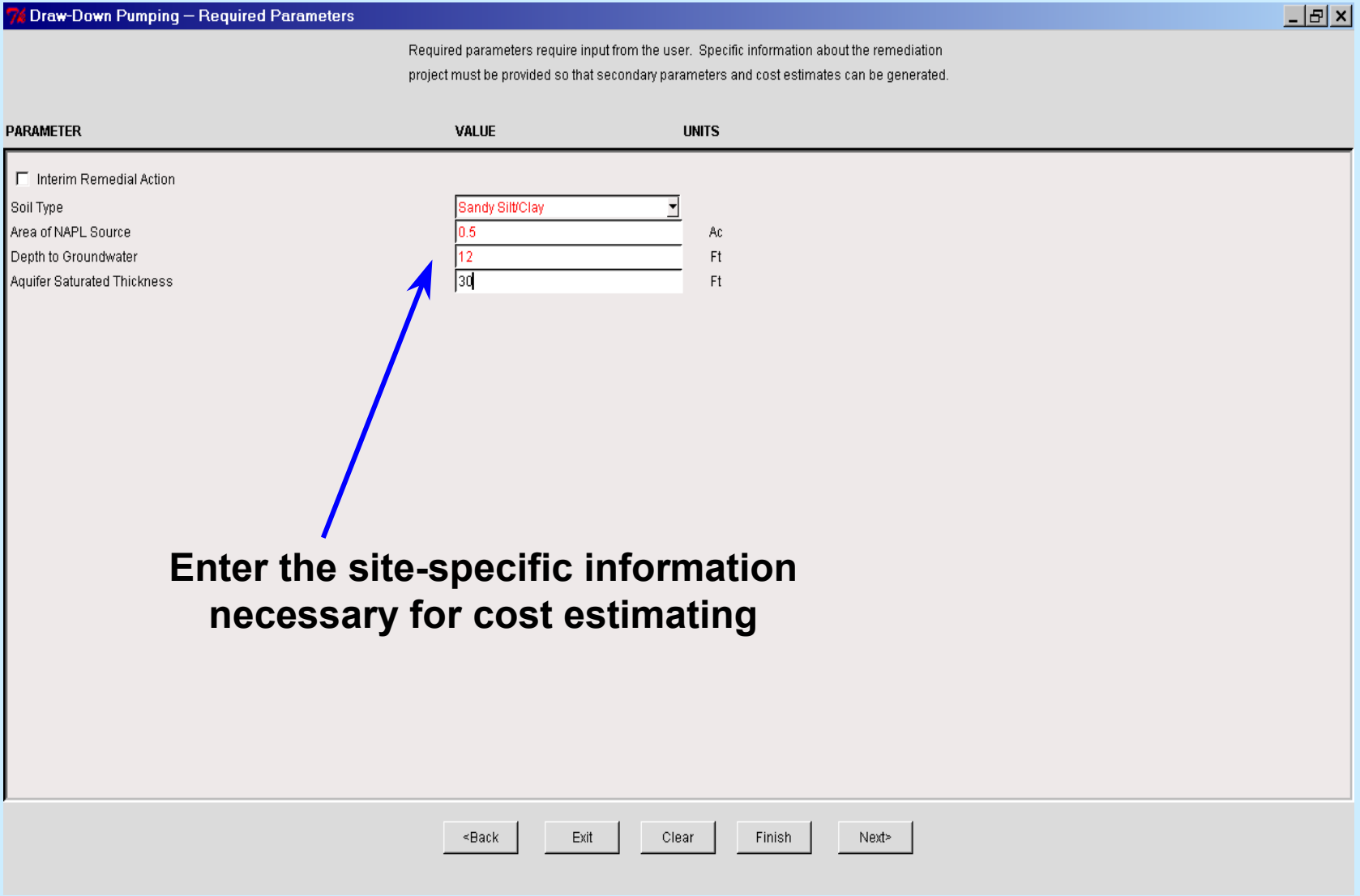
# Getting Started



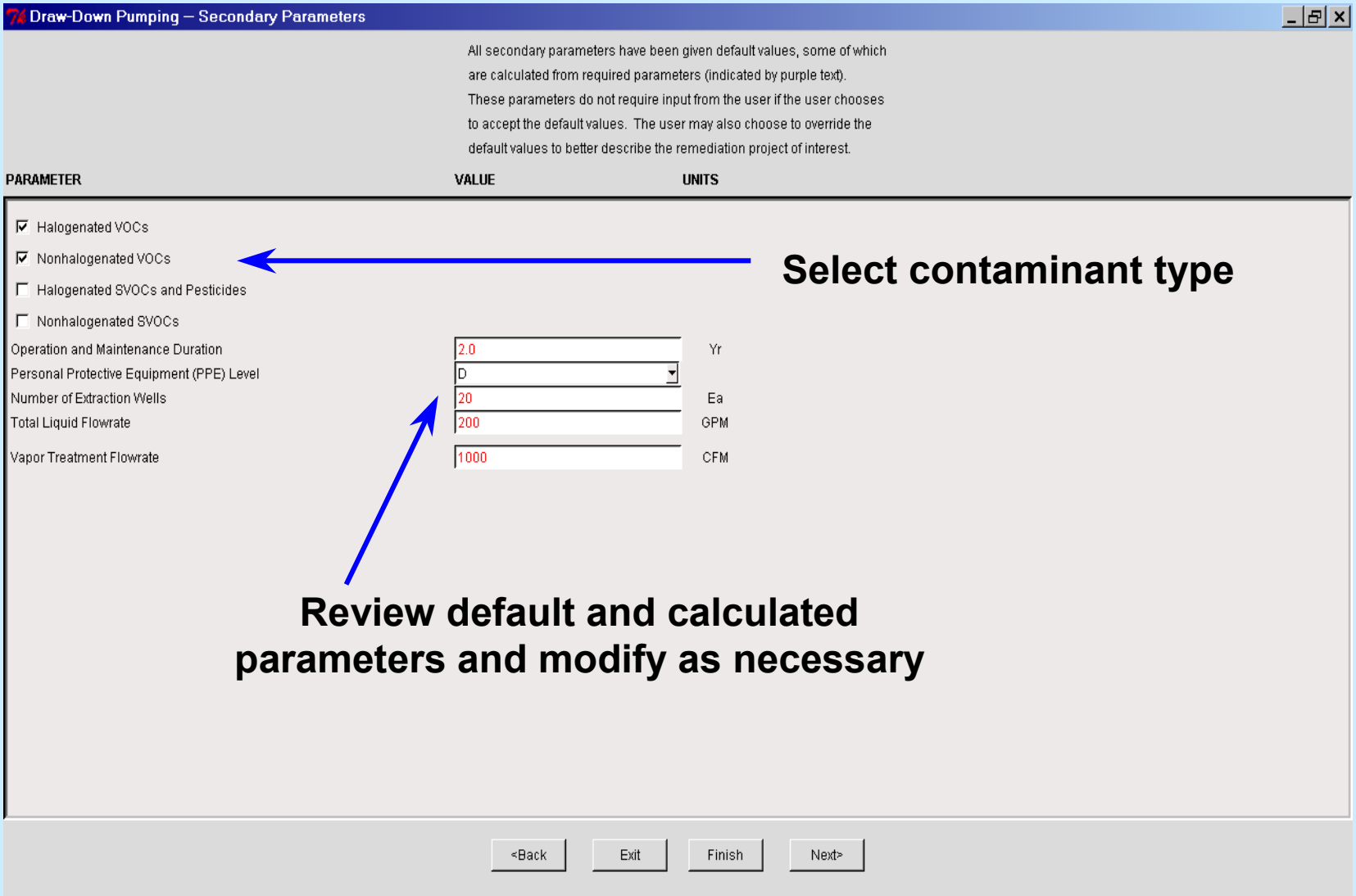

**Click on specific media for technology screening and ranking**

**Select technology from specific media to begin cost modeling process**

# Required Parameters



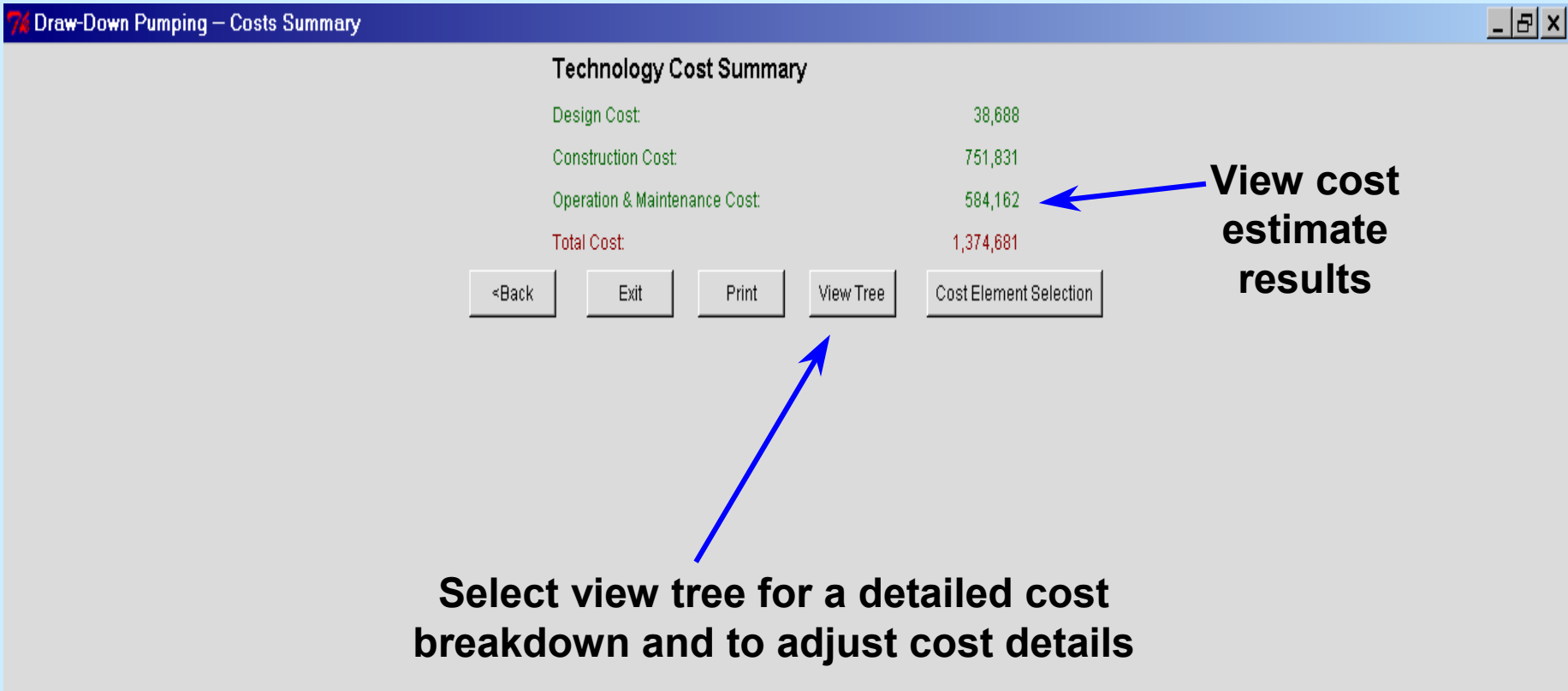
# Secondary Parameters



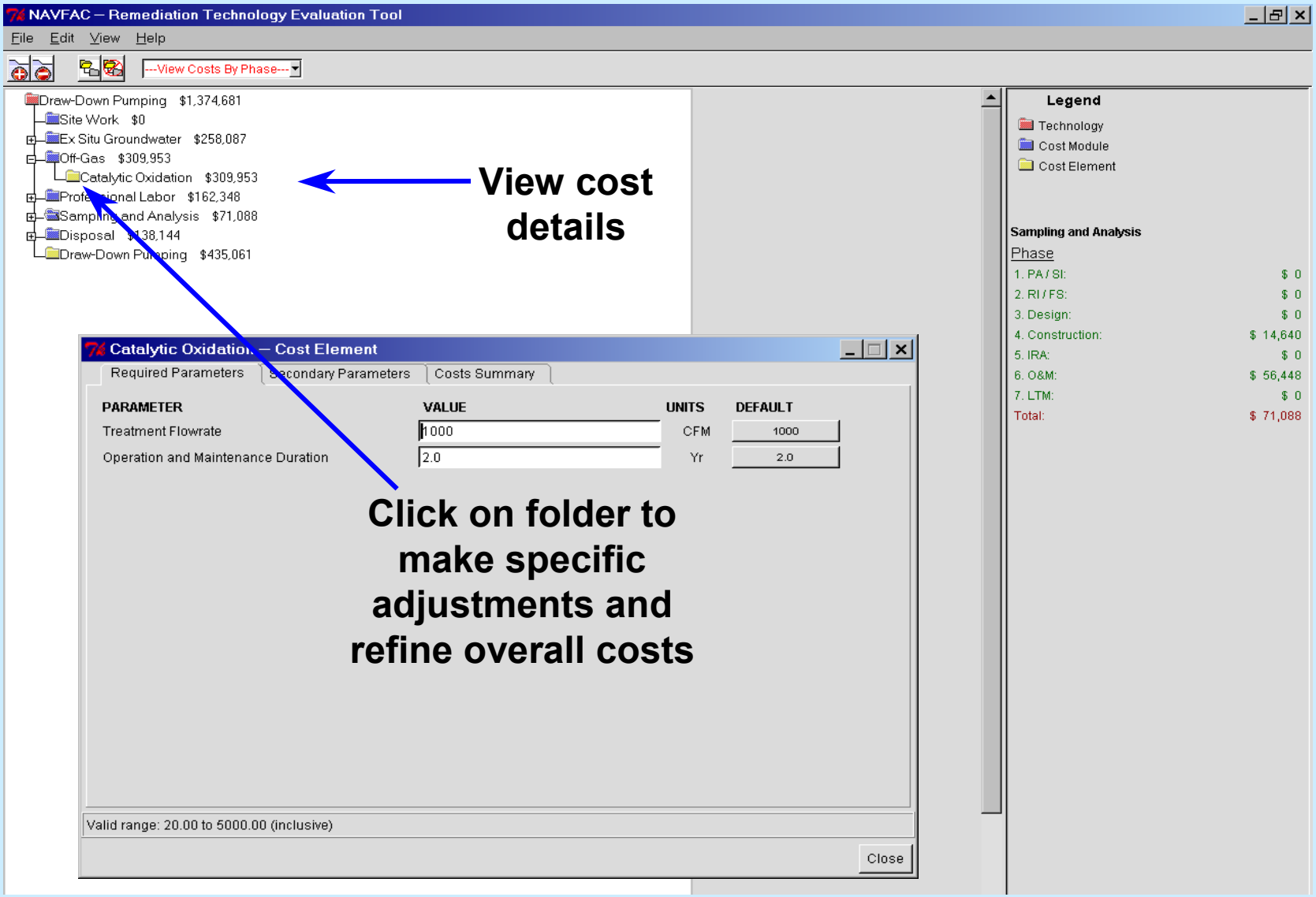

**Select contaminant type**

**Review default and calculated parameters and modify as necessary**

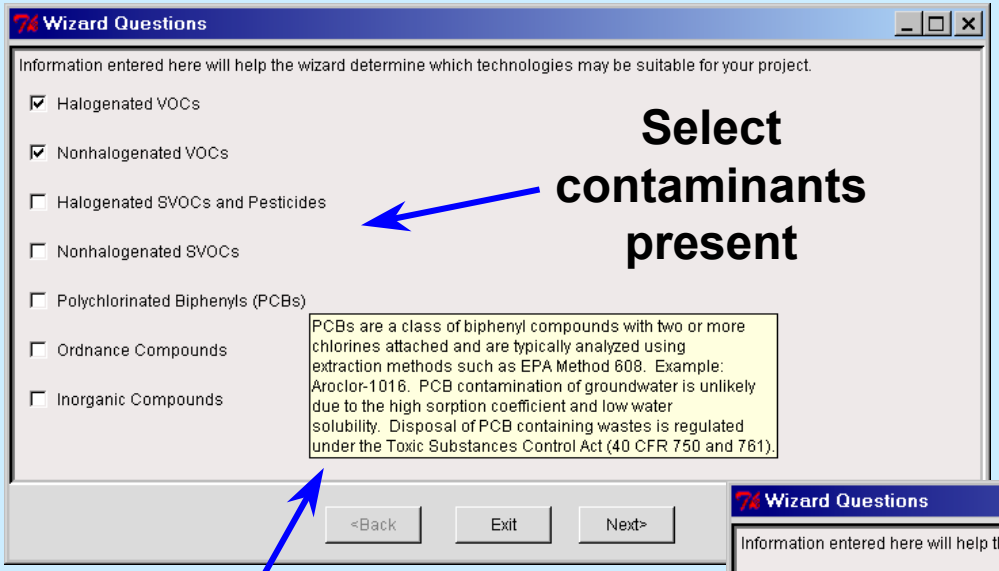
# View Costs


Draw-Down Pumping – Costs Summary
Technology Cost Summary
Design Cost: 38,688
Construction Cost: 751,831
Operation & Maintenance Cost: 584,162
Total Cost: 1,374,681
<Back
Exit
Print
View Tree
Cost Element Selection
View cost estimate results
Select view tree for a detailed cost breakdown and to adjust cost details

# View Cost Breakdown and Adjust Costs

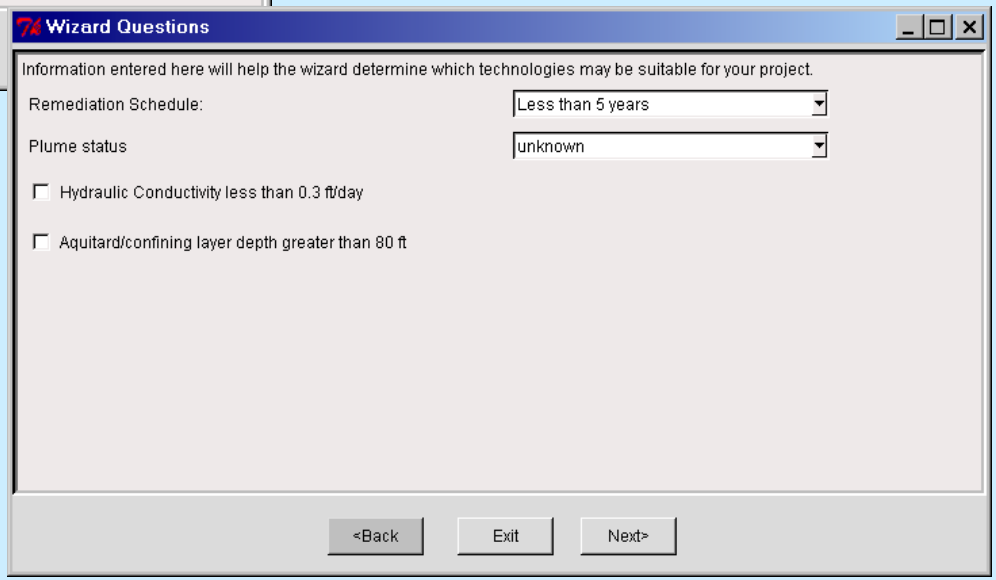


# Technology Screening Wizard



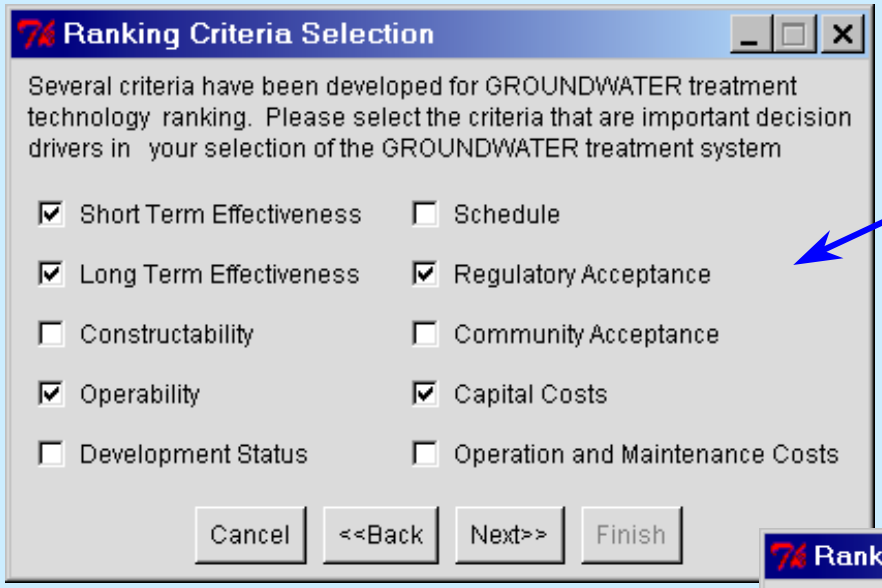

**Select contaminants present**

**Enter additional information requested**



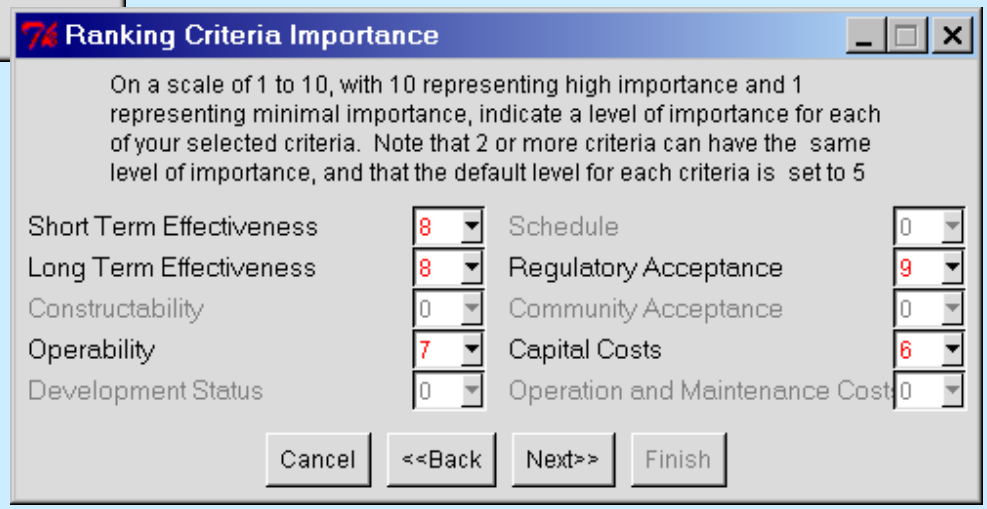

**Roll cursor over text for helpful decision-making tips**

# Technology Screening Wizard (Cont.)

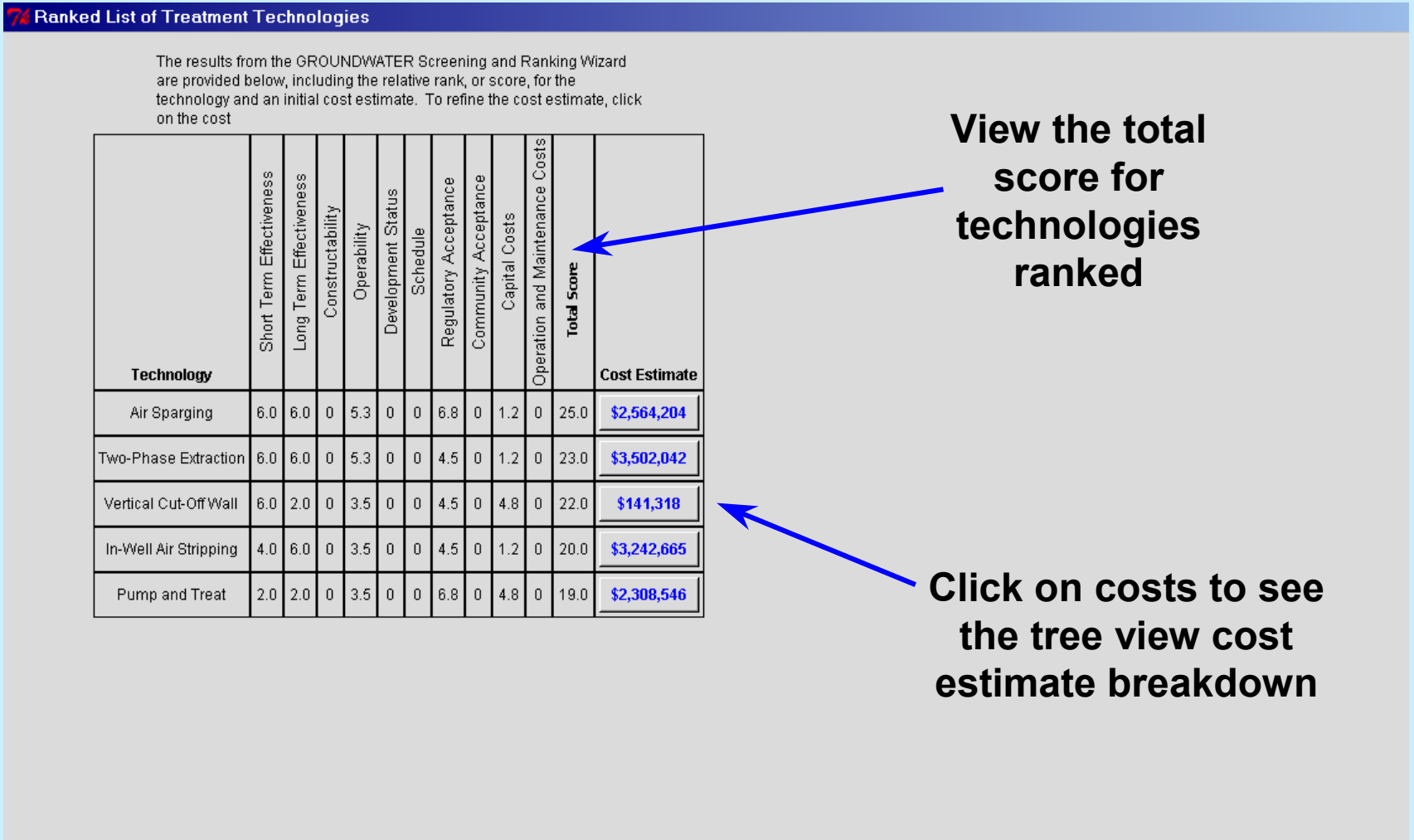



**Select criteria that are decision drivers in selection of your system**

**Rate the importance of selected criteria (scale of 1 to 10)**



# View Results




| Technology | Short Term Effectiveness | Long Term Effectiveness | Constructability | Operability | Development Status | Schedule | Regulatory Acceptance | Community Acceptance | Capital Costs | Operation and Maintenance Costs | Total Score | Cost Estimate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Air Sparging | 6.0 | 6.0 | 0 | 5.3 | 0 | 0 | 6.8 | 0 | 1.2 | 0 | 25.0 | $2,564,204 |
| Two-Phase Extraction | 6.0 | 6.0 | 0 | 5.3 | 0 | 0 | 4.5 | 0 | 1.2 | 0 | 23.0 | $3,502,042 |
| Vertical Cut-Off Wall | 6.0 | 2.0 | 0 | 3.5 | 0 | 0 | 4.5 | 0 | 4.8 | 0 | 22.0 | $141,318 |
| In-Well Air Stripping | 4.0 | 6.0 | 0 | 3.5 | 0 | 0 | 4.5 | 0 | 1.2 | 0 | 20.0 | $3,242,665 |
| Pump and Treat | 2.0 | 2.0 | 0 | 3.5 | 0 | 0 | 6.8 | 0 | 4.8 | 0 | 19.0 | $2,308,546 |